

**LifeSeq® Gold**  
Genomics for Life™ATTACHMENT II  
*Gene Detail*

Main Menu

Genes

Libraries

Transcripts

Library Comp

Genomic Data

Sequences

Help

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**Gene Information**

Gene ID: 396578      Template Count: 6      Seq Count: 557      Clone Count: 483  
Top Hit ID: g180198      Hit Species: Homo sapiens  
Hit Type: Exact      E-Value: 0.0e+00      Pct ID: 99

Gene Description: Human carcinoembryonic antigen mRNA.

Genomic Data

**Templates**

	Template ID	Template Description	Top Hit ID	Hit Species
<input checked="" type="checkbox"/>	<u>396578.12</u>	Human carcinoembryonic antigen mRNA.	<u>g180198</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.6</u>	Human BGP gene for biliary glycoprotein,	<u>g29447</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.10</u>	Human carcinoembryonic antigen (CEA) gen	<u>g180206</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.15</u>	Human carcinoembryonic antigen mRNA (CEA	<u>g180222</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.2</u>	Human carcinoembryonic antigen mRNA.	<u>g180198</u>	Homo sapien
<input checked="" type="checkbox"/>	<u>396578.14</u>	Human carcinoembryonic antigen (CEA) gen	<u>g180208</u>	Homo sapien

Uncheck All

Submit template IDs to BLAST2  **Protein Function****Function hierarchy**

- Adhesion and molecular recognition
  - Adhesion
    - Ig superfamily
      - Localized and structural proteins
        - Membrane
          - Peripheral and anchored membrane proteins

**Tissue Distribution**

1

<u>Tissue Category</u>	<u>Clone Count</u>	<u>Found in</u>	<u>Abs Abund</u>	<u>Pct Abund</u>	<u>Pct Spec</u>
Cardiovascular System	266190	<u>0/68</u>	0	0.0000	0.00
Connective Tissue	144645	<u>1/47</u>	1	0.0007	0.64
Digestive System	501101	<u>61/148</u>	342	0.0682	62.17
Embryonic Structures	106713	<u>0/21</u>	0	0.0000	0.00
Endocrine System	225386	<u>1/53</u>	1	0.0004	0.36
Exocrine Glands	254635	<u>2/64</u>	3	0.0012	1.09
Genitalia, Female	427284	<u>8/106</u>	17	0.0040	3.65
Genitalia, Male	448207	<u>2/114</u>	5	0.0011	1.00
Germ Cells	38282	<u>0/5</u>	0	0.0000	0.00
Hemic and Immune System	680277	<u>4/159</u>	49	0.0072	6.56
Liver	109378	<u>1/35</u>	2	0.0018	1.64
Musculoskeletal System	159280	<u>0/47</u>	0	0.0000	0.00
Nervous System	955753	<u>0/198</u>	0	0.0000	0.00
Pancreas	110207	<u>4/24</u>	26	0.0236	21.51
Respiratory System	390086	<u>4/93</u>	6	0.0015	1.37
Sense Organs	19256	<u>0/8</u>	0	0.0000	0.00
Skin	72292	<u>0/15</u>	0	0.0000	0.00
Stomatognathic System	12923	<u>0/10</u>	0	0.0000	0.00
Unclassified/Mixed	120926	<u>0/13</u>	0	0.0000	0.00
Urinary Tract	279062	<u>0/64</u>	0	0.0000	0.00
Totals	5321883	<u>88/1292</u>	452	0.0091	100.00

Requested by: LG051\_092000\_GOLD\_RO on Thu Sep 28 14:59:30 2000

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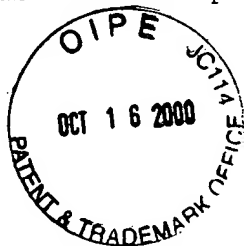
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Genomics for Life**Gene Detail**[Main Menu](#)[Genes](#)[Libraries](#)[Transcripts](#)[Library Comp](#)[Genomic Data](#)[Sequences](#)[Help](#)

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**Gene Information**

Gene ID: 1383133      Template Count: 17      Seq Count: 2876      Clone Count: 279  
Top Hit ID: g35740      Hit Species: Homo sapiens  
Hit Type: Exact      E-Value: 0.0e+00      Pct ID: 99

Gene Description: Human mRNA for prostate specific antigen.

[Genomic Data](#)**Templates**

	Template ID	Template Description	Top Hit ID	Hit Species
<input checked="" type="checkbox"/>	<a href="#">1383133.7</a>	Human mRNA for prostate specific antigen	<a href="#">g35740</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.17</a>	Human mRNA for prostate specific antigen	<a href="#">g35740</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.8</a>	Human mRNA for prostate specific antigen	<a href="#">g35740</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.16</a>	Human prostate specific antigen (PA) gen	<a href="#">g189525</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.13</a>	Human mRNA for prostate specific antigen	<a href="#">g35740</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.2</a>	Human PSA gene for prostate specific ant	<a href="#">g35730</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.9</a>	Human prostate-specific antigen (PA) gen	<a href="#">g341200</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.11</a>	Human mRNA for prostate specific antigen	<a href="#">g35720</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.14</a>	Human mRNA for prostate specific antigen	<a href="#">g35740</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.12</a>	Human prostate specific antigen gene, co	<a href="#">g190552</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.15</a>	Human prostate specific antigen gene, co	<a href="#">g190552</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.10</a>	Human prostate specific antigen gene, co	<a href="#">g190552</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.1</a>	Human prostate specific antigen (PA) gen	<a href="#">g189523</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.3</a>	Human prostate specific antigen (PA) gen	<a href="#">g189529</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.4</a>	Human mRNA for prostate specific antigen	<a href="#">g35740</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.5</a>	Human mRNA for prostate specific antigen	<a href="#">g35720</a>	Homo sapien
<input checked="" type="checkbox"/>	<a href="#">1383133.6</a>	Human mRNA for prostate specific antigen	<a href="#">g35740</a>	Homo sapien

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**Protein Function**
**Enzyme hierarchy**

Hydrolases  
 Acting on peptide bonds (peptide hydrolases)  
 Serine endopeptidases

**Function hierarchy**

Protein modification and maintenance  
 Proteases  
 Serine proteases  
 Localized and structural proteins  
 Secreted and extracellular  
 Other secreted and extracellular

**Pathway hierarchy**

Metabolism  
 Protein metabolism  
 Post-translation  
 Protein cleavage and degradation

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**Tissue Distribution**

Tissue Category	Clone Count	Found in	Abs Abund	Pct Abund	Pct Spec
Cardiovascular System	266190	<u>0/68</u>	0	0.0000	0.00
Connective Tissue	144645	<u>1/47</u>	4	0.0028	0.45
Digestive System	501101	<u>6/148</u>	6	0.0012	0.19
Embryonic Structures	106713	<u>1/21</u>	1	0.0009	0.14
Endocrine System	225386	<u>1/53</u>	1	0.0004	0.06
Exocrine Glands	254635	<u>3/64</u>	4	0.0016	0.26
Genitalia, Female	427284	<u>1/106</u>	1	0.0002	0.03
Genitalia, Male	448207	<u>65/114</u>	2728	0.6086	97.07
Germ Cells	38282	<u>0/5</u>	0	0.0000	0.00
Hemic and Immune System	680277	<u>1/159</u>	5	0.0007	0.11
Liver	109378	<u>0/35</u>	0	0.0000	0.00
Musculoskeletal System	159280	<u>2/47</u>	13	0.0082	1.31
Nervous System	955753	<u>5/198</u>	6	0.0006	0.10
Pancreas	110207	<u>1/24</u>	2	0.0018	0.29
Respiratory System	390086	<u>0/93</u>	0	0.0000	0.00
Sense Organs	19256	<u>0/8</u>	0	0.0000	0.00
Skin	72292	<u>0/15</u>	0	0.0000	0.00
Stomatognathic System	12923	<u>0/10</u>	0	0.0000	0.00
Unclassified/Mixed	120926	<u>0/13</u>	0	0.0000	0.00
Urinary Tract	279062	<u>0/64</u>	0	0.0000	0.00
Totals	5321883	<u>87/1292</u>	2771	0.0524	100.00

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